

Inventor: Beech, Philip Michael  
Serial No.: 10/591,794  
Filing Date:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

BEECH, Philip Michael et al

Serial No.: 10/591,794

Filing Date:

Title: Non-thermal Plasma Reactor

\*  
\*  
\* Attn: Ms. Charitta Burt  
\* Fax No. 571-270-9832  
\*  
\*  
\*

RESPONSE TO NOTICE TO FILE MISSING PARTS  
OF NONPROVISIONAL APPLICATION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
Mail Stop Missing Parts

Attention: Ms. Charitta Burt

Ms. Burt:

Thank you for taking my assistant's telephone call the other day. As you were advised, the Declaration by the inventors was previously filed and acknowledged by the Patent Office for this application. We are resubmitting herewith copies of the documents submitted on October 12, 2006, and request that the application be given the filing date when the documents were originally submitted, that is October 12, 2006.

In response to the Formalities Letter dated March 9, 2007, there are submitted herewith the following:

1. A copy of the Formalities Letter.
2. A copy of Form PTO-1390 originally filed by facsimile on October 12, 2006, and representing a second submission, comprised of the declaration of the inventors (4 pages), and Form PTO-2038 in payment of the surcharge for late filing of the declaration.

Also submitted are copies of the Certificate of Transmission

Inventor: Beech, Philip Michael  
Serial No.: 10/591,794  
Filing Date:

dated October 12, 2006, and the Auto-Reply Facsimile Transmission from the USPTO dated 10/12/2006.

Thank you for your assistance in this matter.

Respectfully submitted,

William H. Holt

William H. Holt  
Reg. No. 20766  
Customer No. 25628

April 19, 2007

Date

Law Offices of William H. Holt  
12311 Harbor Drive  
Woodbridge, VA 22192

Telephone: 703-491-8880  
Facsimile: 703-491-8444

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office, to the attention of Ms. Charitta Burt at Facsimile No. 571-270-9832 on April 19, 2007.

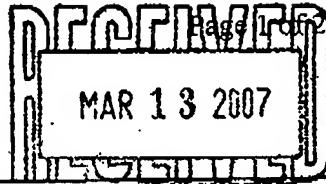
Kathleen Holt  
Signature

Kathleen Holt  
Name



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Attn: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)



U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/591,794	Philip Michael Beech	BEECH-15830
INTERNATIONAL APPLICATION NO.		PCT/GB05/00882
LA. FILING DATE		PRIORITY DATE
03/08/2005		03/09/2004
CONFIRMATION NO. 4652		
371 FORMALITIES LETTER		
 *OC00000022823465*		

Date Mailed: 03/09/2007

**NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 09/06/2006
- Copy of the International Search Report filed on 09/06/2006
- Preliminary Amendments filed on 09/06/2006
- Information Disclosure Statements filed on 09/06/2006
- Oath or Declaration filed on 09/06/2006
- Request for Immediate Examination filed on 09/06/2006
- U.S. Basic National Fees filed on 09/06/2006
- Priority Documents filed on 09/06/2006

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
  - does not identify the application to which it is directed.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5).

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

CHARITTA A BURT

Telephone: (703) 308-9140 EXT 207

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/591,794	PCT/GB05/00882	BEECH-15830

FORM PCT/DO/EO/905 (371 Formalities Notice)

USPTO

10/12/2006 4:07:12 PM PAGE 17001

### **Fax Server**

Auto-reply fax to 709 4 8444 COMPANY:

## Auto-Reply Facsimile Transmission



TO: Fax Sender at 703 491 8444

**Fax Information**  
**Date Received:** 10/12/2006 4:01:27 PM [Eastern Daylight Time]  
**Total Pages:** 8 (including cover page)

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Received  
Cover  
Page  
=====

PTO/SB/97 (08-03)

Approved for use through 07/31/2003. GMB 0851-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

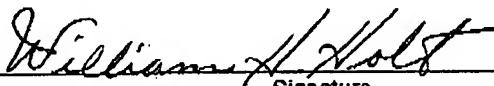
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**Certificate of Transmission under 37 CFR 1.8**

I hereby certify that this correspondence is being facsimile transmitted to the  
United States Patent and Trademark Office, Office of PCT Operations  
Fax No. 571-273-3201

on October 12, 2006.

Date



Signature

William H. Holt

Typed or printed name of person signing Certificate

Note: Each paper must have its own certificate of transmission, or this certificate must identify each submitted paper.

Correspondence includes:

Form PTO-1390, Combined Declaration and Power  
of Attorney (4 pages) and Form PTO-2038.

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 2-2005)		ATTACHMENT <b>EY'S DOCKET NUMBER</b> <b>BEECH-15830</b>  U.S. APPLICATION NO. (If known, see 37 CFR 1.5)
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		
INTERNATIONAL APPLICATION NO. <b>PCT/2005/000882</b>	INTERNATIONAL FILING DATE <b>8 March 2005</b>	PRIORITY DATE CLAIMED <b>9 March 2004; 27 January 2005</b>
<b>TITLE OF INVENTION</b> <b>NON-THERMAL PLASMA REACTOR</b>		
<b>APPLICANT(S) FOR DO/EO/US</b> <b>BEECH, Philip, Michael; GUY, Craig, Stephen; HALL, Stephen, Ivor; WEEKS, David, Michael; SHAWCROSS, James, Timothy; LIDDELL, Thomas, Mark</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371. 2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). 11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409). 12. <input type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).		
Items 13 to 23 below concern document(s) or information included:		
13. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 15. <input type="checkbox"/> A <b>FIRST</b> preliminary amendment. 16. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment. 17. <input type="checkbox"/> A substitute specification. 18. <input type="checkbox"/> A power of attorney and/or change of address letter. 19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 20. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). 22. <input type="checkbox"/> Express Mail Label No. 23. <input type="checkbox"/> Other items or information:		

PTO-1390 (Rev. 02-2005)

Approved for use through 3/31/2007. OMB 0651-0021  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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U.S. APPLICATION NO (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER	
		PCT/2005/000882		BEECH-15830	
				CALCULATIONS	PTO USE
The following fees are submitted:					
24. <input type="checkbox"/> Basic national fee .....				\$300	\$0.00
25. <input type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4). .... All other situations. ....				\$100 \$200	\$0.00
26. <input type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority ..... International Search Report prepared and provided to the Office ..... All other situations. ....				\$100 \$400 \$500	\$0.00
<b>TOTAL OF 24, 25 and 26 =</b>				\$	\$0.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)	RATE		
- 100 =	0 /50 =	0	x \$250.00	\$	\$0.00
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	\$130.00
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	- 20 =	0	x \$50.00	\$	\$0.00
Independent claims	- 3 =	0	x \$200.00	\$	\$0.00
MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> + \$360.00				\$	\$0.00
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$	\$130.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	\$0.00
<b>SUBTOTAL =</b>				\$	\$130.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	\$0.00
<b>TOTAL NATIONAL FEE =</b>				\$	\$130.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +				\$	\$0.00
<b>TOTAL FEES ENCLOSED =</b>				\$	\$130.00
				Amount to be	\$
				Amount to be	\$
<p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>082670</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</b></p>					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Customer No. 25628					
William H. Holt					
12311 Harbor Drive					
Woodbridge, VA 22192					
Phone: 703-491-8880; Fax: 703-491-8444					
_____ SIGNATURE William H. Holt					
NAME 20766					
REGISTRATION NUMBER					